

## References

- [1] Thomas Becker. Homogeneity, pseudo-homogeneity, and gröbner basis computations. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'91 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 65–73. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [2] T. Beth and F. Schaefer. Arithmetic on non supersingular elliptic curves. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 74–81. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [3] Greg Butler. Implementing some algorithms of kantor. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 82–93. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [4] J.F. Canny. Computing roadmaps of general semi-algebraic sets. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 94–107. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [5] J.F. Canny. An improved sign determination algorithm. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 108–117. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.

- [6] Paola Cellini, Patrizia Gianni, and Carlo Traverso. Algorithms for the shape of semialgebraic sets — a new approach. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 1–18. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [7] Habong Chung. The 2-nd generalized hamming weight of double-error correcting binary bch codes and their dual codes. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 118–129. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [8] Pasqualina Conti and Carlo Traverso. Buchberger algorithm and integer programming. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 130–139. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [9] Menouer Diab. New systolic architectures for cyclic code encoding. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 140–151. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [10] Michael J. Dinneen, Michael R. Fellows, and Vance Faber. Algebraic constructions of efficient broadcast networks. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 152–158. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.

- [11] Giovanni Gallo, Bhubaneswar Mishra, and François Ollivier. Some constructions in rings of differential polynomials. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 171–182. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [12] Lawrence P. Holmquist and L.L. Kinney. Concurrent error detection in sequential circuits using convolutional codes. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 183–194. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [13] H. Janwa. On the parameters of algebraic geometric codes. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 19–28. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [14] Erich Kaltofen and B. David Saunders. On wiedemann’s method of solving sparse linear systems. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 29–38. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [15] Teresa Krick and Alessandro Logar. An algorithm for the computation of the radical of an ideal in the ring of polynomials. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 195–205. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.

- [16] Wolfgang Kuechlin, David Lutz, and Nicholas Nevin. Integer multiplication in parsac:2 on stock microprocessors. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 206–217. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [17] Gilles Lachaud and Jacques Stern. Polynomial-time construction of spherical codes. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 218–223. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [18] Lars Langemyr. Algorithms for a multiple algebraic extension ii. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 224–233. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [19] Philippe Langevin. On the orphans and covering radius of the reed-muller codes. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 234–240. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [20] Yuanxing Li and Xinmei Wang. A joint authentication and encryption scheme based on algebraic coding theory. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 241–245. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.

- [21] Simon N. Litsyn. Fast algorithms for decoding orthogonal and related codes. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 39–47. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [22] Antoine C. Lobstein and Patrick Solé. Arithmetic codes – survey, recent and new results. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 246–258. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [23] Robert Morelos-Zaragoza and Shu Lin. Some results on linear unequal-error-protection codes specified by their generator matrix. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 259–268. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [24] Guillermo Moreno Socías. An ackermannian polynomial ideal. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 269–280. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [25] T. Mostowski and E. Rannou. Complexity of the computation of the canonical whitney stratification of an algebraic set in  $c^n$ . In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 281–291. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.

- [26] Friedrich Otto. Some undecidability results for weakly confluent monadic string-rewriting systems. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 292–303. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [27] Paul Pedersen. Calculating multidimensional symmetric functions using jacobi's formula. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 304–317. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [28] Paul Pedersen. Multivariate sturm theory. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 318–332. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [29] Marc Perret. Binary spherical geometric codes. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 333–339. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [30] Alain Poli and Mostafa Belkasmi. An algebraic construction of generalized beenker's codes. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 340–351. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [31] Josep Rifà and Joan Borrell. Improving the time complexity of the computation of irreducible and primitive polynomials in finite fields.

In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 352–359. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.

- [32] Josep Rifà and Jaume Pujol. Completely transitive codes and distance transitive graphs. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 360–367. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [33] Jean-Jacques Risler. Placement of curved polygons. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 368–383. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [34] François Rodier. On the weights of the elements of the duals of binary bch codes. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 384–389. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [35] F. Rossi and W. Spangher. Computation of the openness of some loci of modules. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 390–402. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [36] Yuichi Saitoh and Hideki Imai. Random and byte error correcting codes for asymmetric or unidirectional error control. In H.F. Matt-

- son, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 403–413. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [37] Shojiro Sakata. Finding a minimal polynomial vector set of a vector of  $nd$  arrays. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 414–425. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
  - [38] Patrick Solé. Covering codes and combinatorial optimization. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 426–433. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
  - [39] Osman Nuri Uçan, Ümit Aygölü, and Erdal Panayirci. Decoding of quadrature partial response-trellis coded signals (qpr-tcm) in the presence of intersymbol interference and noise. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 434–445. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
  - [40] Felix Ulmer. On algebraic solutions of linear differential equations with primitive unimodular galois group. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 446–455. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.

- [41] F.S. Vainstein. Error detection and correction in numerical computations by algebraic methods. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 456–464. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [42] C. van Eijl, G. Cohen, and G. Zémor. Error-correction for wims and wums. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 159–170. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [43] Wolmer V. Vasconcelos. Jacobian matrices and constructions in algebra. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 48–64. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [44] Kencheng Zeng, Dah-Yea Wei, and T.R.N. Rao.  $d$ -functions in  $v_k(f_2)$  and self-decimation of  $m$ -sequences. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 465–476. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.
- [45] Lin Zhang and Branka Vučetić. Multilevel modulation codes for rayleigh fading channels. In H.F. Mattson, T. Mora, and T.R.N. Rao, editors, *Proceedings of the 9th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-9 (New Orleans, LA, October 7-11, 1991)*, volume 539 of *LNCS*, pages 477–488. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1991.